Notice of Allowability	Application No.	Applicant(s)	
	10/614,430	RUF ET AL.	
	Examiner	Art Unit	J
	Chuong A Luu	2825	A
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commits (GHTS. This application is	n this application. If not include unication will be mailed in due	ed course. THIS
2. ☑ The allowed claim(s) is/are <u>1-10</u> .			
3. ☑ The drawings filed on <u>07 July 2003</u> are accepted by the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the position of the deposition of the dep	on's Patent Drawing Review Amendment / Comment on the header according to 37 Cl Sit of BIOLOGICAL MAT	r in the Office action of the drawings in the front (not the FR 1.121(d). ERIAL must be submitted. N	
attached Examiner's comment regarding REQUIREMENT I Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	nformal Patent Application (PTC)-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), /Mail Date	
 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 7/7/2003 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8), 7. Examiner's	Amendment/Comment Statement of Reasons for Allo	wance

DETAILED ACTION

Inventorship

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Allowable Subject Matter

Claims 1-10 are allowed.

The following is an examiner's statement of reasons for allowance: The examiner has reviewed the prior art in light of applicant's claimed invention and finds that the claims define over the prior art. The cited prior art does not disclose or suggest the combined limitation of a process to form a stacked semiconductor device inter alia the limitations "depositing and patterning an insulating layer on the substrate surface, a surface region of the doping region being uncovered; depositing a metal-containing layer on the insulating layer and the surface region; processing the substrate during a first step in a process chamber at a first temperature in a first atmosphere containing hydrogen, for a first time duration, resulting in metal silicide being produced from a part

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of the metal-containing layer and a part of the doping region; subsequently processing the substrate during a second step at a second temperature in a second atmosphere containing less than 10% hydrogen and more than 90% nitrogen, for a second time duration to convert a remaining part of the metal-containing layer into metal nitride".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong A Luu whose telephone number is (571) 272-1902. The examiner can normally be reached on M-F (6:30-3:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CAL September 29, 2004

> MATTHEW SMITH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800